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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/683,616	01/25/2002	Garrett Storm Dunker	6305		
30455	7590 06/22/2004	22/2004 EX		AMINER	
_	STROM DUNKER		OSORIO, RICARDO		
	BERRY ST #21 PHIA, PA 19106	·	ART UNIT	PAPER NUMBER	
			2673		
			DATE MAILED: 06/22/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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(	Арриса	tion No.	Applicant(s)	•				
SUPPLEMENTAL		616	DUNKER, GARRETT STORM					
Office Action Summary	Examin	er	Art Unit					
		OO L OSORIO	2673					
The MAILING DATE of this comm	unication appears on t	he cover sheet with the c	orrespondence addre	iss				
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU  - Extensions of time may be available under the provisi after SIX (6) MONTHS from the mailing date of this co  - If the period for reply specified above is less than thirt  - If NO period for reply is specified above, the maximur  - Failure to reply within the set or extended period for re Any reply received by the Office later than three mont earned patent term adjustment. See 37 CFR 1.704(b)	INICATION. ons of 37 CFR 1.136(a). In no ommunication. y (30) days, a reply within the s n statutory period will apply and eply will, by statute, cause the a hs after the mailing date of this	event, however, may a reply be tin tatutory minimum of thirty (30) day will expire SIX (6) MONTHS from application to become ABANDONE	nely filed  /s will be considered timely.  I the mailing date of this comm  ED (35 U.S.C. § 133).	nunication.				
Status								
1)⊠ Responsive to communication(s) filed on <u>25 January 2002</u> .								
2a) This action is <b>FINAL</b> .								
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
<ul> <li>4) Claim(s) 1-3 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5) Claim(s) is/are allowed.</li> <li>6) Claim(s) 1-3 is/are rejected.</li> <li>7) Claim(s) is/are objected to.</li> <li>8) Claim(s) are subject to restriction and/or election requirement.</li> </ul>								
Application Papers								
9)☐ The specification is objected to by	the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any ol	pjection to the drawing(s	) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) includ		= : :	=	• •				
Priority under 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review 3) Information Disclosure Statement(s) (PTO-1449 Paper No(s)/Mail Date  S. Patent and Trademark Office.		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		52)				

U.S. Patent and Trademark Offic PTOL-326 (Rev. 1-04) Application/Control Number: 09/683,616 Page 2

Art Unit: 2673

#### SUPPLEMENTAL DETAILED ACTION

# Claim Objections

- 1. Claim 1 is objected to because of the following informalities: In claim 1, line 4, after sensitivity, the word --and-- should be added. Appropriate correction is required.
- 2. Claim 2 is objected because it is not clear in the claim language if applicant is trying to list all items (a) through (g) as being used together or alternatively. After carefully reviewing the specification, examiner believes that applicant intended to write the claim in alternative language. For more consistency and clarity, the examiner suggests the following changes:

  In claim 2, line 2, after comprising, add --one of--. This addition will not constitute new matter.

  Thus, for examination purposes, the language of claim 2 will be considered alternative language.

# Specification

3. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: Claim 2, lines 12-13 recites the following: "any combination of said elevations, said textures, said materials, said temperatures, or said sensors". In the specification, paragraph 14, lines 3-8, applicant suggests that the raised elevation(s) can be composed of material either similar or dissimilar to the material of the key. However, there is no support in the specification for "any combination of said elevations, said textures, said materials, said temperatures, or said sensors".

Application/Control Number: 09/683,616 Page 3

Art Unit: 2673

### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Hargreaves et al (5,689,253).

Regarding claim 1, Hargreaves teaches of a human computer keyboard interface device (Fig. 1, reference character 100) comprising:

- (a) a plurality of keys (Fig. 1, reference characters 102, 104 and 106),
- (b) an indicator for identification means for one or more of said keys, whereby said indicator identifies said keys through a means of touch sensitivity (see Figs. 3, and 8-10, and col. 11, lines 25-31, 39-44, 52-55 and 60-62), and
- (c) a placement of said indicator or indicators such that typing efficiency is optimized (col. 11, lines 31-33, 55-60 and 62-64, col. 22, lines 63-65, and col. 23, lines 4-7).

Regarding claim 2, Hargreaves teaches of using touch sensitivity by means of key alteration comprising a difference in elevation on all or part of said keys (see Figs. 3, and 8-10, and col. 11, lines 25-31, 39-44, 52-55, 60-62, and col. 23, lines 4-7).

Page 4

Application/Control Number: 09/683,616

Art Unit: 2673

# Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hargreaves et al (see above rejection under 35 U.S.C. 102(b)) in view of Lakso et al (5,302,970).

Regarding claim 3, Hargreaves fails to teach using touch sensitivity by means of keyboard alteration comprising of a wall that partly or entirely surrounds said key.

Lakso teaches of using touch sensitivity by means of keyboard alteration comprising of a wall that surrounds the keyboard keys (see col. 2, lines 47-50).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the keyboard so that it has the wall surrounding the key, as taught by Lakso, in the device of Hargreaves because having the wall surrounding the key will help propel the user's finger toward the key and will help in not striking more than one key at a time, for example, in the case of a handicap person (see Lakso, col. 2, lines 48-52).

1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ricardo Osorio whose telephone number is 703 305-2248. The examiner can normally be reached on Monday to Thursday from 7:30 A.M. to 6:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached at telephone number is 703 305-4938.

Application/Control Number: 09/683,616

Art Unit: 2673

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

703 872-9306 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,

Arlington, VA, Sixth Floor (Receptionist).

Information regarding the status of an application may be obtained from the Patent

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applications is available through Private PAIR only. For more information about the PAIR

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ricardo L. Osorio

Page 5

Examiner

Art Unit: 2673

RLO

June 8, 2004